



Modbus® Holding Registers



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LPT-M & LPT-P CGAS-D / CGAS-DP

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MODBUS® HOLDING REGISTERS

The LPT-M, LPT-P, CGAS-D and CGAS-DP transmitters may be configured as part of a Modbus® RTU RS-485 network. In order for communication to be successful between devices, be sure your network connection is complete, the network termination switches are set appropriately and all the devices are configured with the same baud rate, character format, etc. Each device will have its own unique Modbus® ID.

NOTES:

The LPT-P does not support a relay.

LPT-P and LPT-M can have up to 3 gas channels.

CGAS-D and CGAS-DP can have up to 2 gas channels (or 1 gas and 1 particulate channel) plus an RH channel and a Temperature channel

If you have specific requirements, have any questions or require clarification about these holding registers, please contact CETCI for assistance.

Holding Registers From 1 to 50,320

Register	Description	Information	
1	Internal Relay 1 output status (LPT-M, CGAS-D, CGAS-DP only)		
30,001	Channel 1 Reading	present reading x scaler	LEL, PPM, %VOL, µg/m3
30,004	Channel 1 Alarm Status		

Register	Description	Information	
30,005	Channel 2 Reading	present reading x scaler	LEL, PPM, %VOL, µg/m3
30,008	Channel 2 Alarm Status		
30,009	Channel 3 Reading	present reading x scaler	LEL, PPM, %VOL, DegC, DegF, %RH
30,012	Channel 3 Alarm Status		
30,013	Channel 4 Reading	present reading x scaler	LEL, PPM, %VOL, DegC, DegF, %RH
30,016	Channel 4 Alarm Status		
40,101	Number of Relays present (LPT-M, CGAS-D, CGAS-DP only)		
40,103	Number of Channels present		
41,013 to 41,028	Model Name	32 bytes	
41,035 to 41,042	Serial Number	16 bytes	
41,045	Firmware Version		
41,113	Modbus ID	if changed by program, may require Reset	

Register	Description	Information
41,114	Modbus Baud Rate	if changed by program, may require Reset
45,002	Relay On Delay (LPT-M, CGAS-D, CGAS-DP only)	seconds
45,003	Relay Off Delay (LPT-M, CGAS-D, CGAS-DP only)	seconds

CHANGING ANY VALUES IN THE CHANNEL HOLDING REGISTERS WILL VOID ANY CALIBRATION OR LIABILITY FOR CORRECT OPERATION. THESE VALUES ARE FOR REFERENCE ONLY.

Register	Description	Information
50,004	Sensor Scaler	multiplier (1, 10, 100, 1000)
50,005	Decimal Place	decimals (0, 1, 2)
50,008	Sensor Range	with scaler factor
50,011	Low Alarm Set Point	with scaler factor
50,012	Mid Alarm Set Point	with scaler factor
50,013	High Alarm Set Point	with scaler factor
50,025 to 50,027	Gas/Value Name	
50,028 to 50,030	Gas/Value Units	eg. LEL, PPM, %VOL, DegC, DegF, %RH

50,033	Priority Membership
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50,079	Channel 1 Warmup Timer
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Repeat 50,004 to 50,079 for each channel that is present. Each channel has an offset of 80 from the previous channel's equivalent register.



Critical Environment Technologies Canada Inc.

Unit 145, 7391 Vantage Way, Delta, BC, V4G 1M3, Canada

Toll Free: +1.877.940.8741

Tel: +1.604.940.8741

Fax: +1.604.940.8745

www.critical-environment.com